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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/617,308      | 07/14/2000  | Toshitaka Agano      | Q58739              | 8383             |

7590

04/22/2002

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EXAMINER

ABDULSELAM, ABBAS L

ART UNIT PAPER NUMBER

2674

DATE MAILED: 04/22/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.  
**09/617,308**

Applicant(s)  
**Agano Toshitaka**

Examiner  
**Abbas Abdulsalam**

Group Art Unit  
**2674**



- ☐ Responsive to communication(s) filed on \_\_\_\_\_.
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

- ☒ Claim(s) 1-16 is/are pending in the application.
- Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- ☒ Claim(s) 1-16 is/are rejected.
- ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- ☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

- ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been
- ☐ received.
- ☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.
- ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

- ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

- ☒ Notice of References Cited, PTO-892
- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_
- ☐ Interview Summary, PTO-413
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## **DETAILED ACTION**

### **Claim Rejections 35 U.S.C. 103**

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa et al. (USPN 5926292).

Regarding claims 1 and 10, Ishikawa teaches an image processing unit (44), image forming unit (45) and a monitor (48) for displaying processed image data. Ishikawa teaches an image processing capable of maintaining good qualities of color image and text. See col. 2, lines 51-55. Ishikawa teaches gradations of each of R, G, and B planes in terms of bits per pixel and further teaches a scenario where increased resolution for text and enhanced gradation for image is possible. See col. 1, lines 45-67 and 52-57. However, Ishikawa does not specifically teach displaying an image having a higher gradation resolution than production performance of each of the R, G, B cells. Ishikawa does teach pallet encode circuits (207, 331) that convert an image pixel data into pallet colors. For example, 24 bit data for RGB colors is converted into 9 bit pallet code. See col. 9, lines 57-67, col. 10, lines 1-3 Fig 6 and Fig 13. In addition Ishikawa teaches gradation adding circuit (9). See Fig 3.

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Therefore it would have been obvious to one having skill in the art at the time the invention was made to utilize Ishikawa's pallet encode circuit as well as gradation adding circuit. One would have been motivated in view of Ishikawa that the pallet encode circuit and gradation adding circuit can be used to obtain the desired gradation resolution level with respect to R, G and B cells.

Regarding claims 2-3, Ishikawa teaches that a single pixel data is input with 8 bits for each of Red, Green, and Blue colors. See col. 13, lines 48-51.

Regarding claims 4 and 11, Ishikawa teaches that when gradations of each of the R, G, and B planes is 256, 24 bits per pixel are required for full display. See col. 1, lines 53-57.

Regarding claims 5-6, Ishikawa teaches the image data corresponding to one image pixel is input by a 24 bit data which means 8 bits for each of Red, green and Blue colors.

Regarding claims 7-8, Ishikawa teaches an image area detecting circuit (205) which include (x, y) coordinates values of the pixel. See col. 11, lines 30-50.

Regarding claim 9, Ishikawa teaches pixel data of one frame as well as image processing circuit (204) with respect to timing.

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### **Conclusion**

2. The prior art made of record and not relied upon is considered to applicant's disclosure.

The following arts are cited for further reference.

U.S. Pat No. 5,210,600 to Hirata

U.S. Pat No. 5,414,529 to Terada et al.

U.S. Pat No. 5,721,578 to Nakai et al.

U.S. Pat No. 5,801,745 to Wada et al.

U.S. Pat No. 6,317,220 to Fujita et al.

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3. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulsalam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709**.

**Any response to this action should be mailed to:**

Commissioner of patents and Trademarks

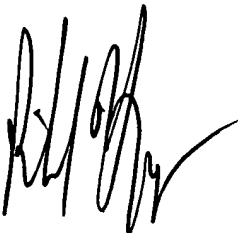
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314**

Hand delivered responses should be brought to crustal park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

  
**RICHARD HJERPE**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**

Abbas Abdulsalam

Examiner

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